

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008504

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F16C33/20, F16H53/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F16C33/20, F16H53/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Toroku Jitsuyo Shinan Koho | 1994-2004 |
| Kokai Jitsuyo Shinan Koho | 1971-2004 | Jitsuyo Shinan Toroku Koho | 1996-2004 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X Y | JP 2002-295471 A (NTN Corp.), 09 October, 2002 (09.10.02), Par. Nos. [0007] to [0010], [0014] (Family: none) | 1,8 2-7,9,10 |
| Y | JP 2002-364647 A (NTN Corp.), 18 December, 2002 (18.12.02), Par. Nos. [0015], [0016], [0024] to [0028] (Family: none) | 2-7,9 |
| Y | JP 11-131198 A (Daido Steel Co., Ltd.), 18 May, 1999 (18.05.99), Par. No. [0032] (Family: none) | 2 |

 Further documents are listed in the continuation of Box C. See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"S" document member of the same patent family

Date of the actual completion of the international search
12 October, 2004 (12.10.04)Date of mailing of the international search report
26 October, 2004 (26.10.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 9-78522 A (Howa Machinery, Ltd.), 25 March, 1997 (25.03.97), Par. No. [0007] (Family: none) | 10 |